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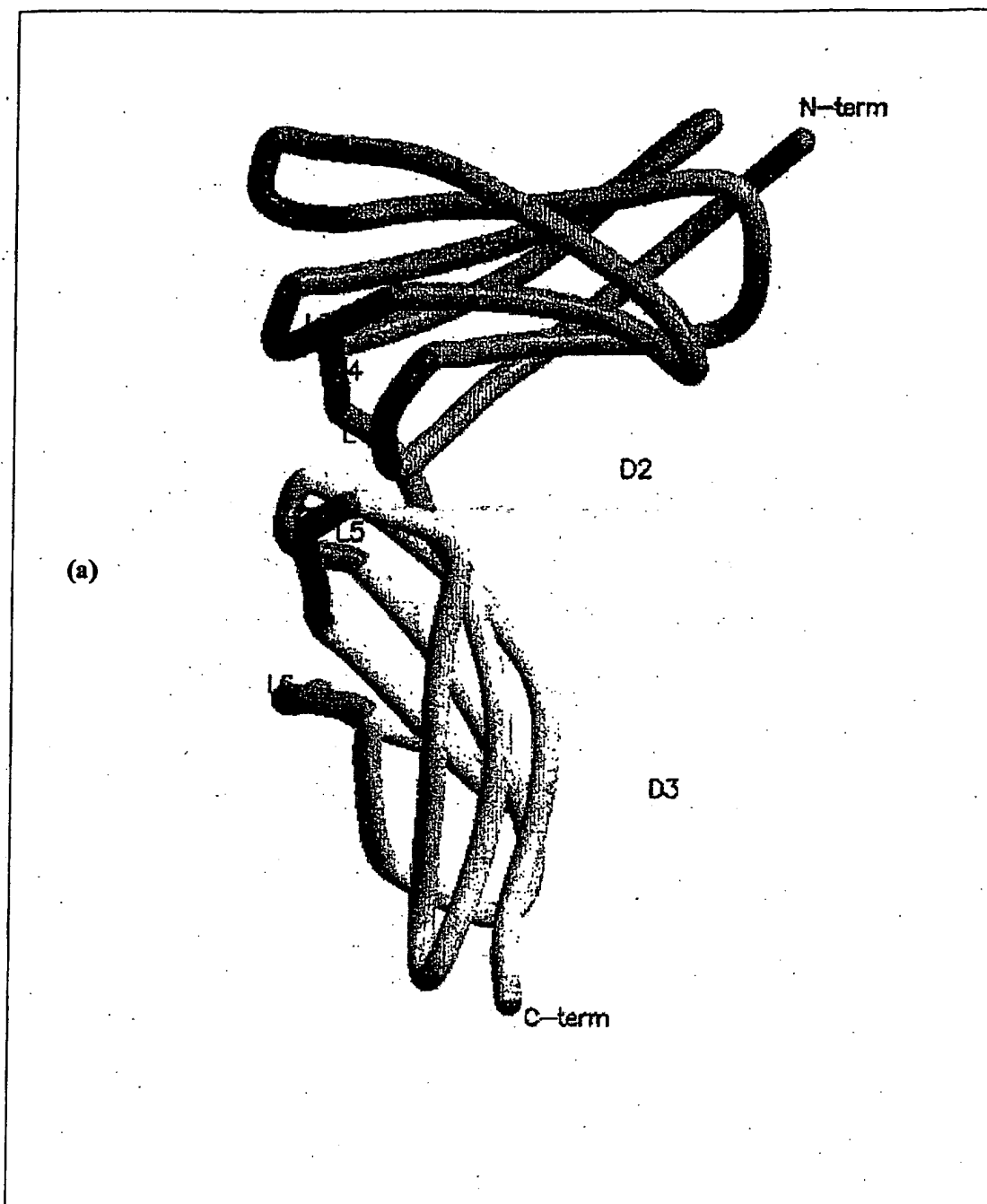


Figure 1(a)

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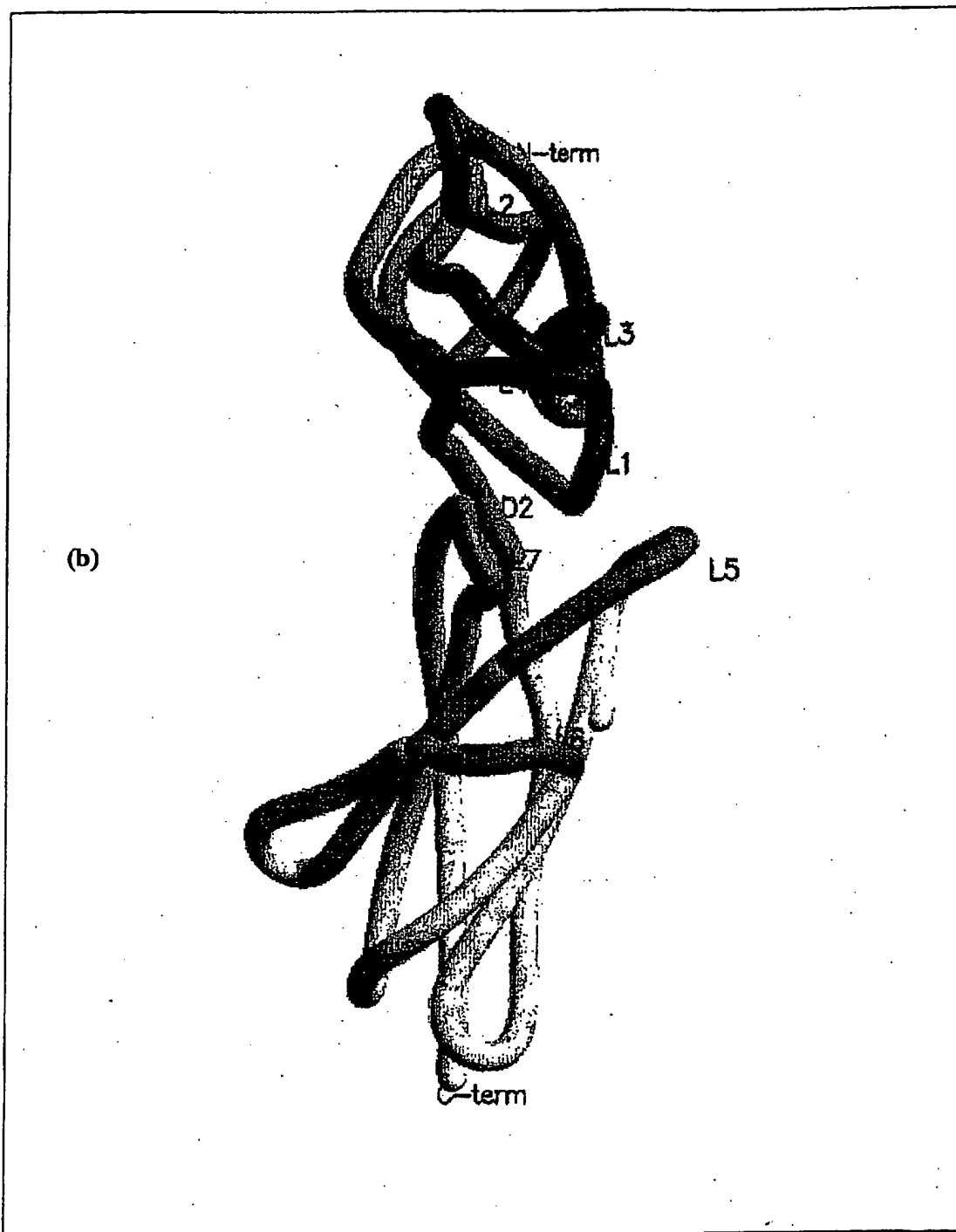


Figure 1(b)

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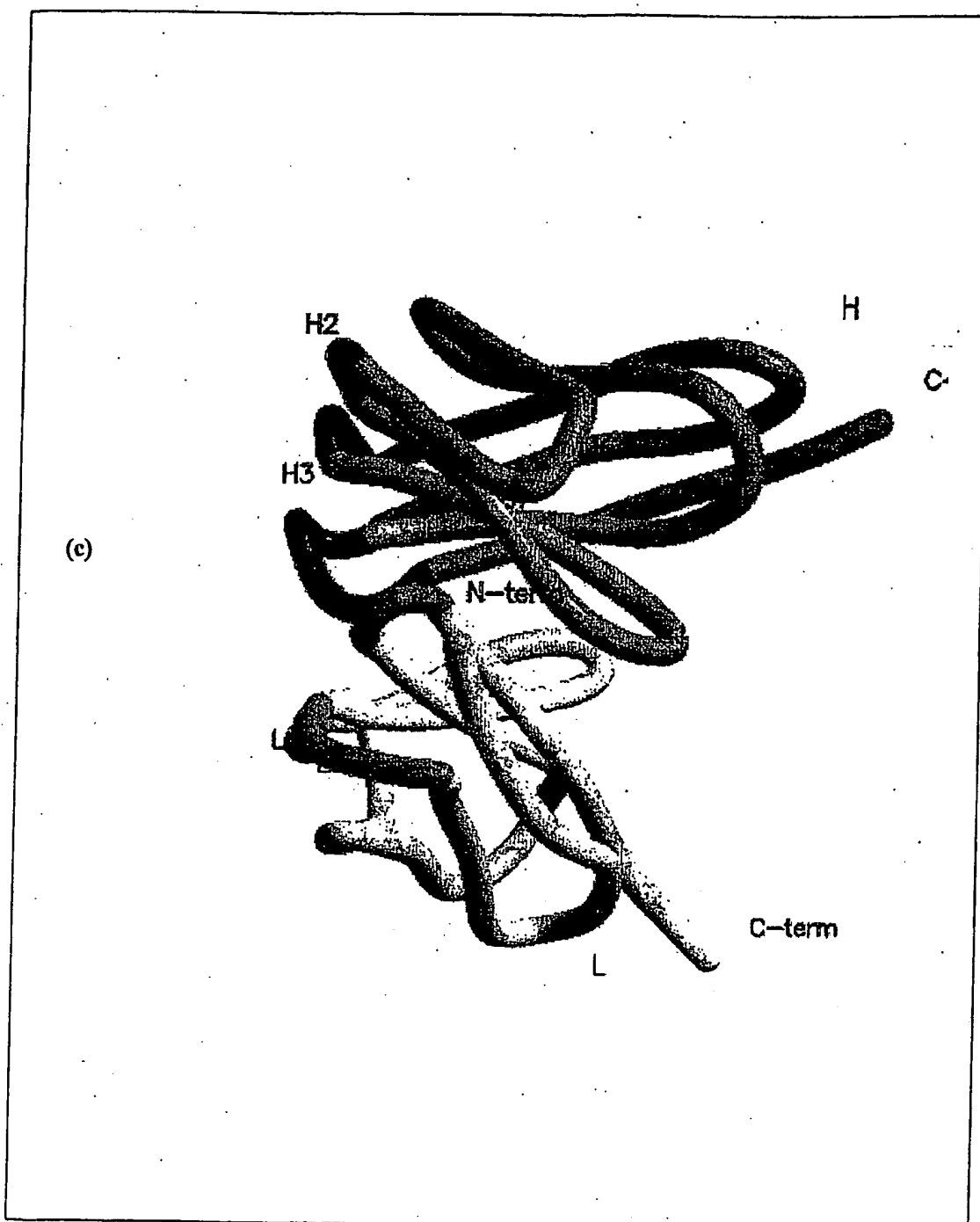


Figure 1(c)

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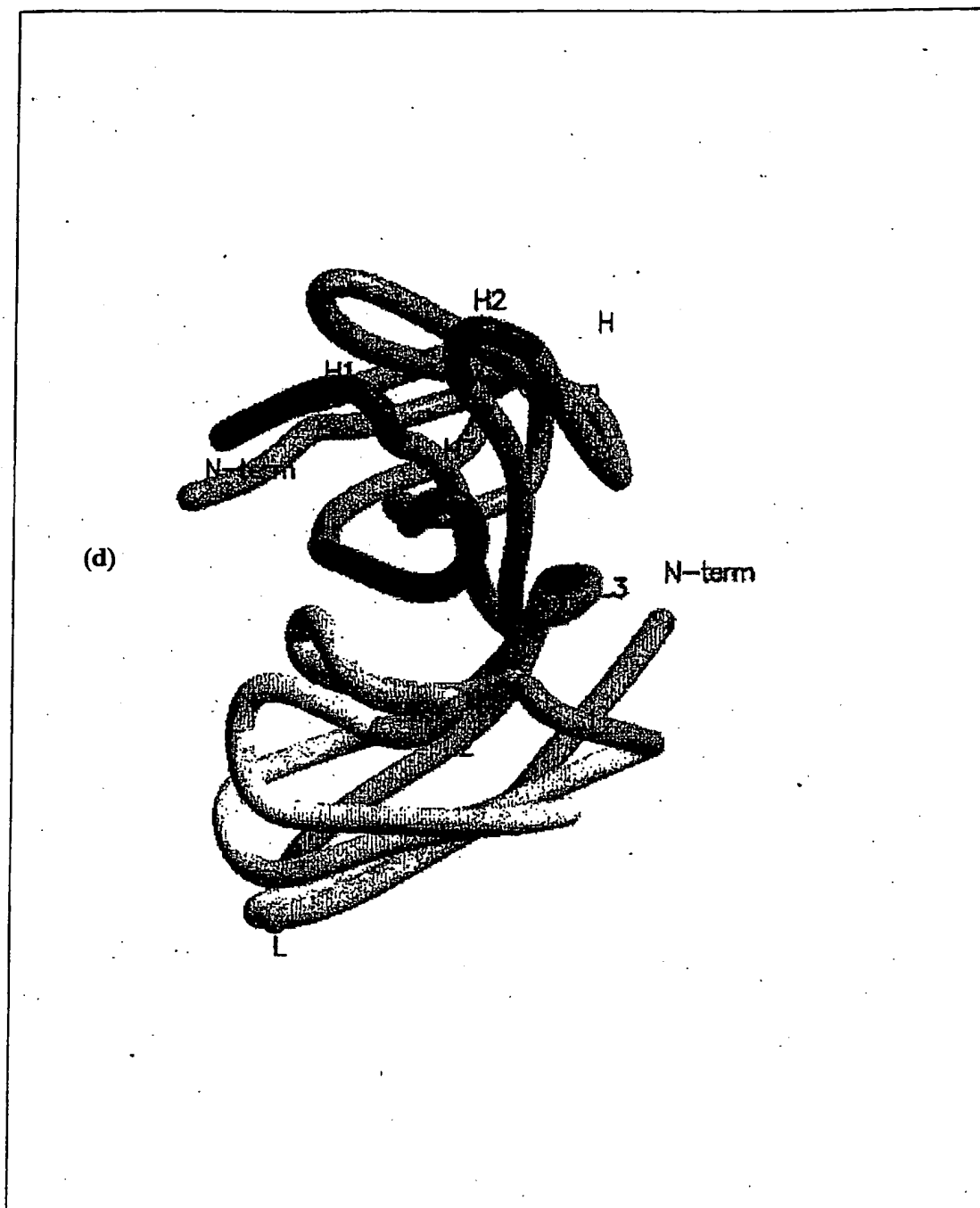


Figure 1(d)

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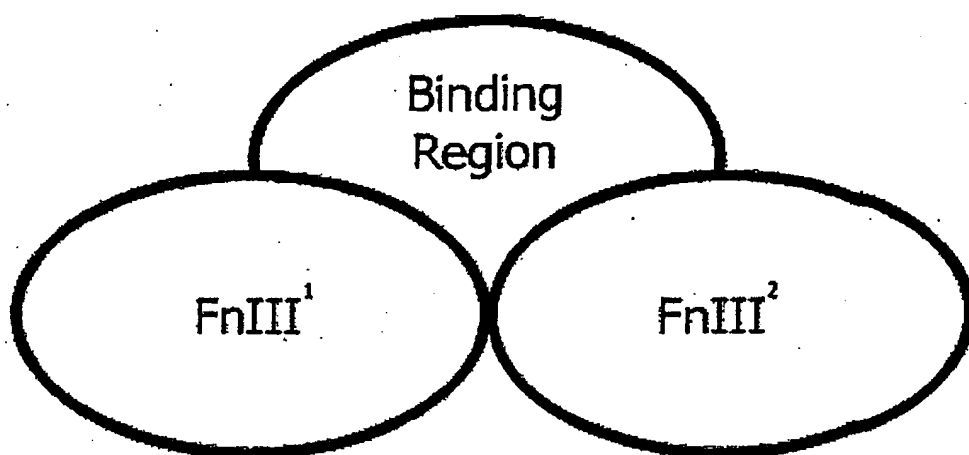


Figure 1A

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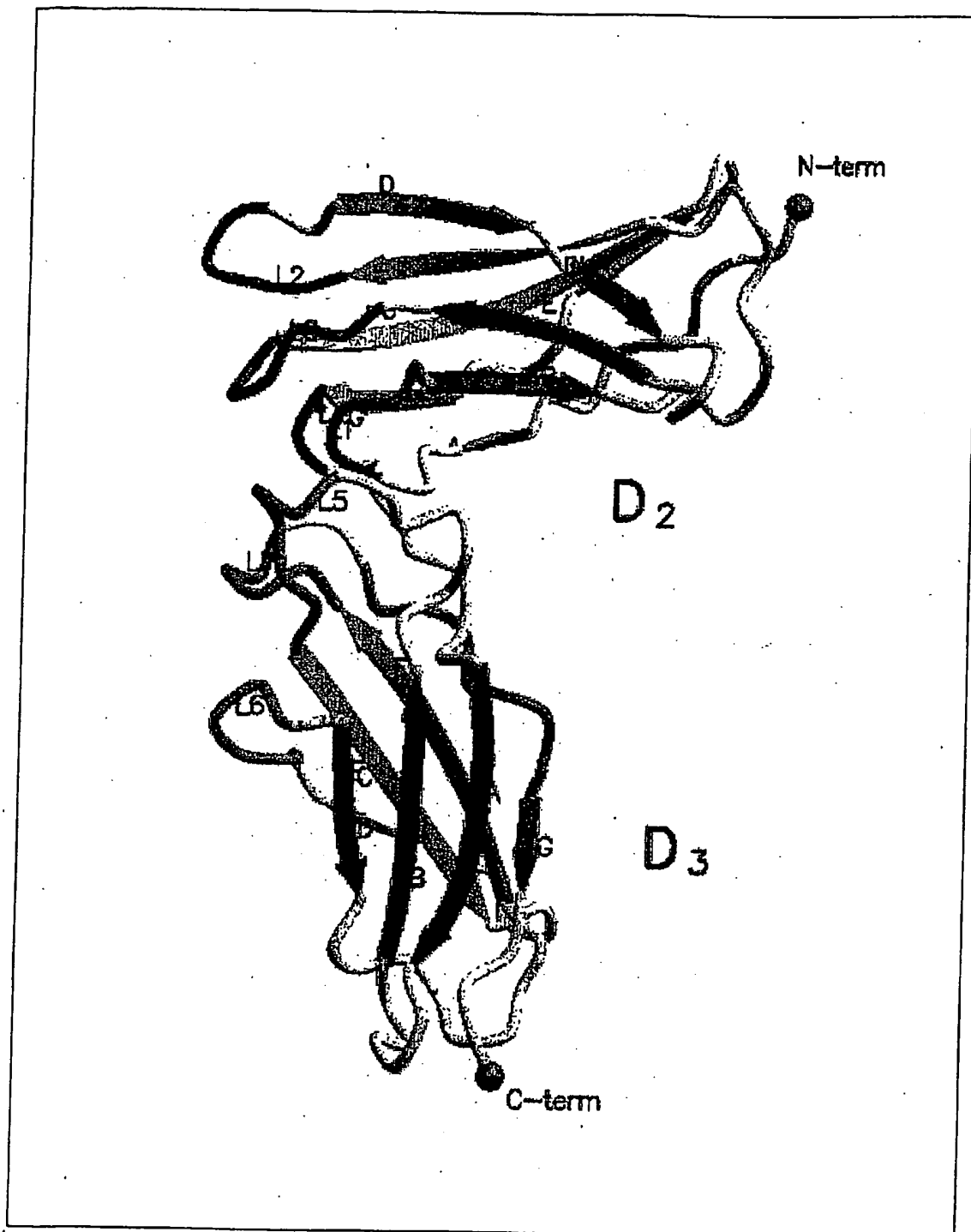


Figure 2(a)

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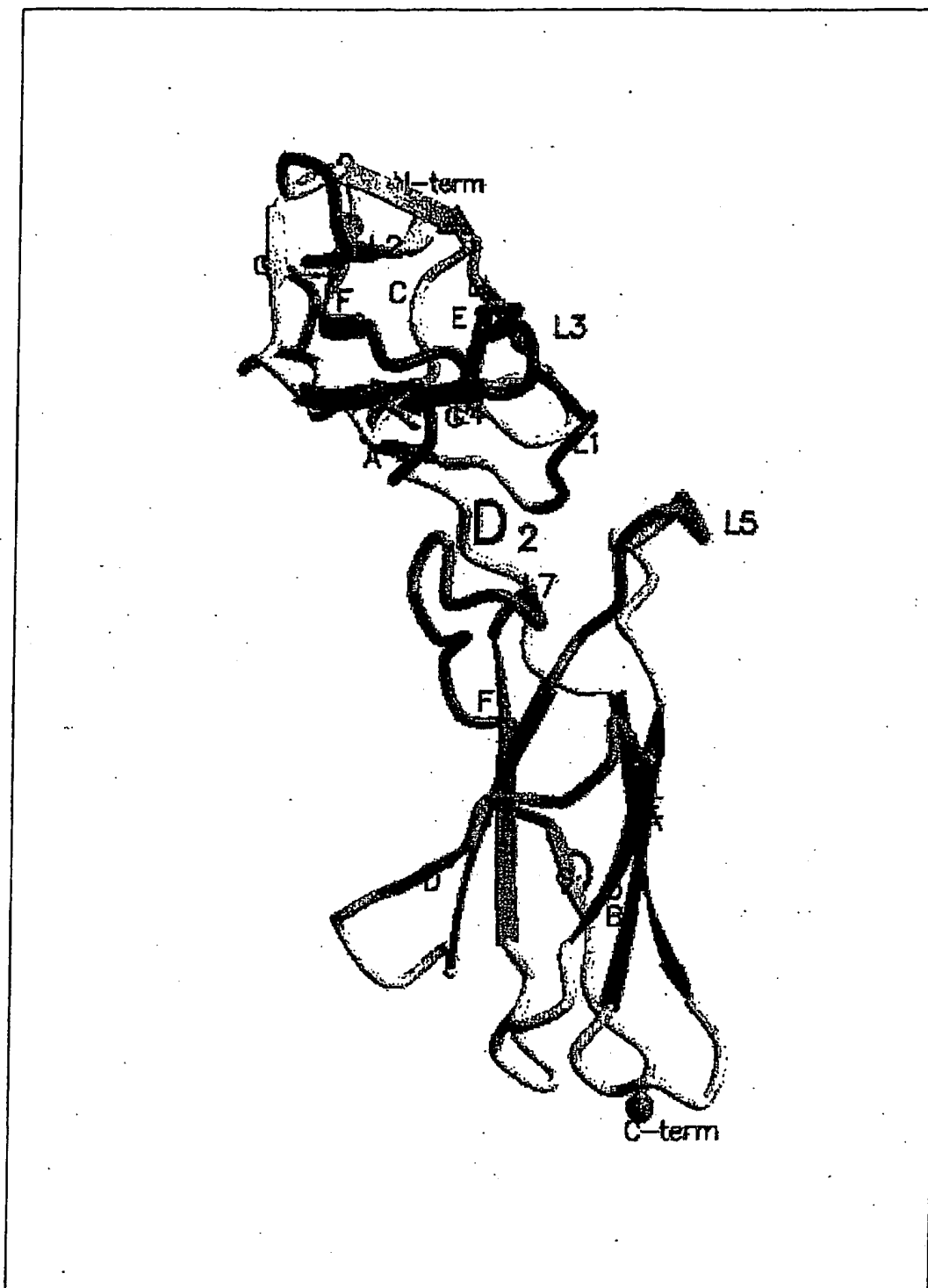


Figure 2(b)

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10 20 30 40 50
LAPRRCPAQE VARGVLTSLP GDSVTLTCPG VEPEDNATVH WVLRKPAAGS

60 70 80 90 100
HPSRWAGMGR RLLLSRVQLH DSGNYSCYRA GRPAGTVHLL VDVPPPEEPOLS

A#

110	120	130	140	150
CFRKSPLSNV	VCEWGPRSTP	SLTTKAVLLV	RKFQNSPAED	FOEPCOYSQE

```
##          B#####          C##### D,D'#####
*****
L1                                L2
```

160	170	180	190	200
SQKFCQLAV	PEGDSSFYIV	SMCVASSVGS	KFSKTQTFQG	CGILQDPDPA

E##### F##### G##### G'##### A#

 L3 L4

210 220 230 240 250
NITVTAVARN PRWLSVTWQD PHSWNSSFYR LRFELRYRAE RSKTFTTWMV

B##### C##### D#####
***** **
L5

260 270 280 290 300
KDLQHHCVIH DAWSGLRHVV QLRAQEEFGQ GEWSEWSPEA MGTPPWTESRS

```

E#####F#####G####
*****
L6L7

```

310 320
PPAENEVSTP MQALTTNKDD DNIL

```
# beta sheets; * loops; ██████ first domain (D2);     second
domain (D3)
```

Figure 3

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Approximate positioning of each loop in four of the cytokine receptor family members. The loop positions could vary up to 3 amino acids either side of the box. For example Loop 6 of the prolactin receptor is defined as GQQTEF and not FAQQ as depicted here.

IL6RPRRL	-----	VPPEEPQ-LSCFSPNK-ETEVCEWGPSTPSLTTK
P08887 IL6A_HUMAN	LHDSGNYSCY-RAGRPA GTVHLLV	VPPEEPQ-LSCFRKSPLSNVCEWGPSTPSLTTK
Q14626 I11R_HUMAN	STDEGTIYCQTLDGALGGT VTLQL	YPPARPV-VSCQADY-ENFSCTWSPSQISGLPTR
P16471 PRLR_HUMAN	MKENVASATVFTLLLFLNTCLNG	LPPGKPEIFKCRSPNK-ETETCWWRPGTDGGLPTN
Q99062 GCSR_HUMAN	-AFLSCCLNWGNSLQILDQVELRA	YPPAIPHNLSCLMNLTTSSSLICQWEPGPETHLPTS
IL6RPRRL	AVLLVHRE-----	GETLMFOEPCQYSQESQKFSCHFSGKQYTSMWRTYIVMSVASS
P08887 IL6A_HUMAN	AVLLVRKFQN-----	SHAEDFQEPQYSQESQKFSCLAVPEGD-SSFYIVSMCVASS
Q14626 I11R_HUMAN	YLTSYRKKTVLGADSQRSPSTGFWPCPD-PLGAARCVVHGAEFW--	SQYRINVTEVNP
P16471 PRLR_HUMAN	YSLTYHRE-----	GETLMHECPDYITGGPNSCHFSGKQYTSMWRTYIMMVNATNQ
Q99062 GCSR_HUMAN	FTLKSFKSRNC-----	QTQGDSILDCVPK-DGQSHCCIPRKHLLLYQNMGIWVQAENAL
IL6RPRRL	VGSKFSDELYVDVTYILQDPDPANITVTAVA-RNPR---	WLSVTWQDPHLIDLK-TGWFT
P08887 IL6A_HUMAN	VGSKFSKTQTFQCGGILQDPDPANITVTAVA-RNPR---	WLSVTWQDPHSHWNSS---FYR
Q14626 I11R_HUMAN	-LGASTRLLDVSLQSILRPDPFQGLRVESVP-GYPR---	RLRASWTYPASWPCQ--PHFL
P16471 PRLR_HUMAN	MGSSFSDELYVDVTYIVQDPDPLELAVEVKQ-PEDR-KPYLWIKWSPPTLIDLK-TGWFT	
Q99062 GCSR_HUMAN	GTSMSPTQLCLDPMDDVVKLEPPMLRTMDPSPEAAPQAGCLQLCWEFPWQPLHINQKCEL	
IL6RPRRL	LRFEELRYRAERSKTFTTWTFAG-QQHHSVIHDAWSGLRHVVQLRAKPD--	HGYWSEWSPEA
P08887 IL6A_HUMAN	LRFEELRYRAERSKTFTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQEEFGQGEWSEWSPEA	
Q14626 I11R_HUMAN	LKFRLLQYRPAQHPAWSTVEPAG--	LEEVIITDAVAGLPHAVRV SARDFLDAGTWSTWSPEA
P16471 PRLR_HUMAN	LLYEIRLKPEKAAEWEIHFAGQ-QTEFKILSLHPGQKYLQVROKPD--	HGYWSAWSPAT
Q99062 GCSR_HUMAN	RHKPQRGEASWALVGPLPLEAL-QYELCGLLP--	ATAYTLQIRCI RWPLPGHWSDWSPSL
IL6RPRRL	MGTPWTE -----	
P08887 IL6A_HUMAN	MGTPWTE RSPPAENEVST-----	PMQALTTN---KDDDNILFRDSANATSLPVQ
Q14626 I11R_HUMAN	WGTPSTG IPKEIPAWGQL-----	HTQPEVEP---QVDS PAPP RP SLQPHPRLLD
P16471 PRLR_HUMAN	FIQIPSD TMNDTTVWISVAVLSAVICLIIVWAVALKGYSMVTCIFPPVPGPKIKGFDH	
Q99062 GCSR_HUMAN	ELRTER PTVRLDTWWRQR-QLDPRTVQLFWKPVPLEEDSGRIQGYVVS-WRPSGQAGA	

Figure 3A

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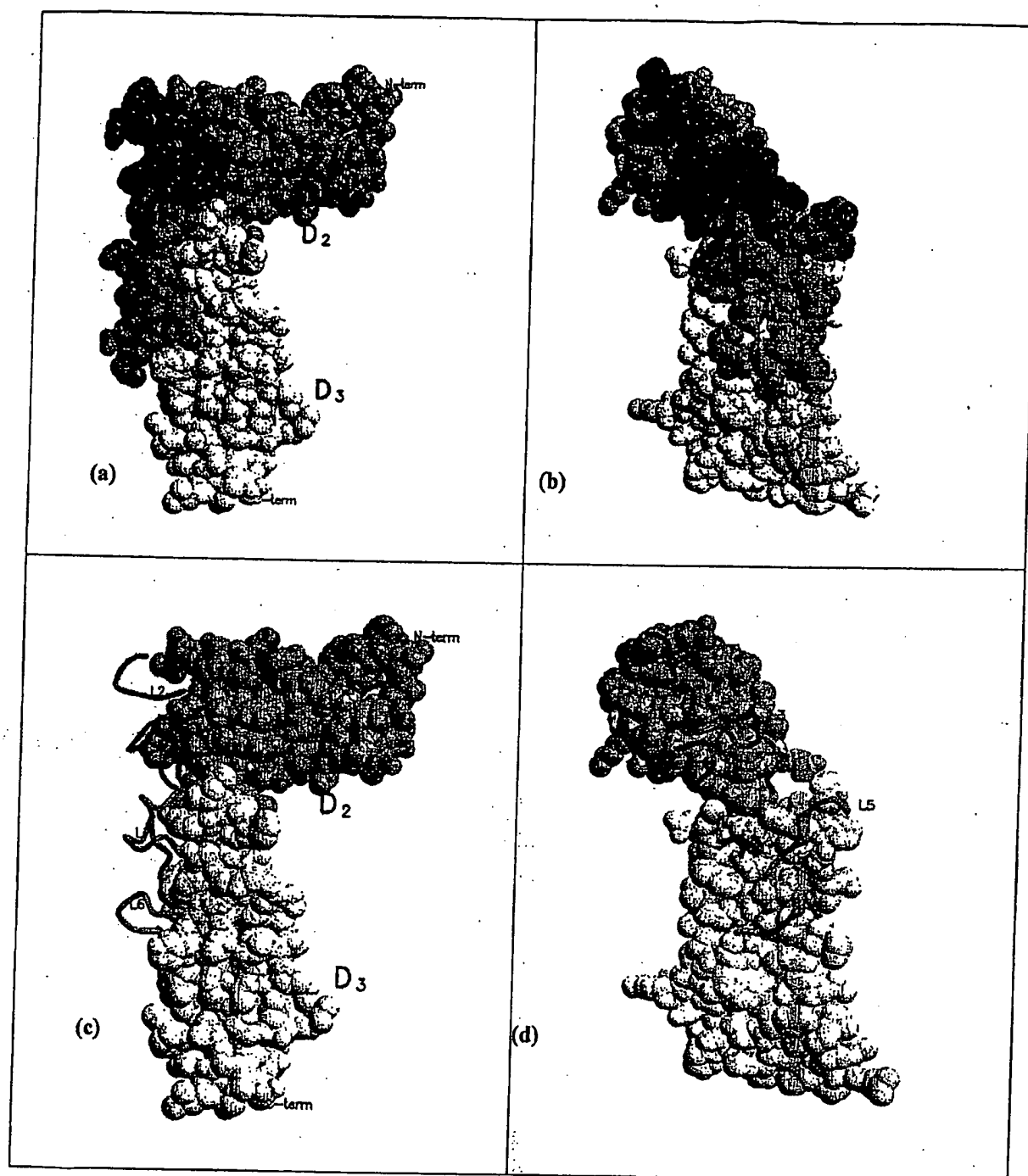


Figure 4

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mGCCSF 122-334	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 121-333	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 26-240	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 30-243	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 30-244	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 240-439	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 243-442	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 244-441	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 130-124-323	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 130-124-323	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 46-262	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 46-271	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 122-328	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 119-332	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 39-247	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 39-246	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 112-317	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 108-313	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 24-224	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 24-225	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 24-229	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 19-224	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 133-342	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 136-345	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 122-320	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 135-336	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 111-318	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 111-318	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 107-317	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 107-317	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 23-229	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 23-228	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 27-285	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 27-277	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 429-638	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 427-636	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 124-332	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 124-330	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 17-229	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 17-229	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 285-490	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 277-481	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 34-232	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 29-226	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 30-235	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 30-236	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 48-261	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 47-261	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 42-234	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 43-256	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 123-337	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 121-333	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 134-333	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 128-327	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 123-332	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 120-329	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 115-348	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 124-352	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 100-292	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 113-322	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 39-253	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 39-254	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 30-216	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 27-217	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 48-246	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 47-241	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 331-534	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 326-529	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 25-140	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 25-139	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 235-429	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 232-426	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 28-236	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 28-236	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 115-330	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF 176-391	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF consensus	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF hGL2R	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF hGL2R	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF hGL2R	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF hGL2R	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL
mGCCSF ruler 1	YKASH-SM-SC-MHL	YKASH-SM-SC-MHL

Figure 5A

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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[illegible]

Figure 5A (cont)

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190 200 210 220 230
 240 250 260 270 280
 290 300 310 320 330
 340 350 360 370 380
 390 400 410 420 430
 440 450 460 470 480
 490 500 510 520 530
 540 550 560 570 580
 590 600 610 620 630
 640 650 660 670 680
 690 700 710 720 730
 740 750 760 770 780
 790 800 810 820 830
 840 850 860 870 880
 890 900 910 920 930
 940 950 960 970 980
 990 1000 1010 1020 1030
 1040 1050 1060 1070 1080
 1090 1100 1110 1120 1130
 1140 1150 1160 1170 1180
 1190 1200 1210 1220 1230
 1240 1250 1260 1270 1280
 1290 1300 1310 1320 1330
 1340 1350 1360 1370 1380
 1390 1400 1410 1420 1430
 1440 1450 1460 1470 1480
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 1790 1800 1810 1820 1830
 1840 1850 1860 1870 1880
 1890 1900 1910 1920 1930
 1940 1950 1960 1970 1980
 1990 2000 2010 2020 2030
 2040 2050 2060 2070 2080
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 2140 2150 2160 2170 2180
 2190 2200 2210 2220 2230
 2240 2250 2260 2270 2280
 2290 2300 2310 2320 2330
 2340 2350 2360 2370 2380
 2390 2400 2410 2420 2430
 2440 2450 2460 2470 2480
 2490 2500 2510 2520 2530
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 2640 2650 2660 2670 2680
 2690 2700 2710 2720 2730
 2740 2750 2760 2770 2780
 2790 2800 2810 2820 2830
 2840 2850 2860 2870 2880
 2890 2900 2910 2920 2930
 2940 2950 2960 2970 2980
 2990 3000 3010 3020 3030
 3040 3050 3060 3070 3080
 3090 3100 3110 3120 3130
 3140 3150 3160 3170 3180
 3190 3200 3210 3220 3230
 3240 3250 3260 3270 3280
 3290 3300 3310 3320 3330
 3340 3350 3360 3370 3380
 3390 3400 3410 3420 3430
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 3490 3500 3510 3520 3530
 3540 3550 3560 3570 3580
 3590 3600 3610 3620 3630
 3640 3650 3660 3670 3680
 3690 3700 3710 3720 3730
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 3790 3800 3810 3820 3830
 3840 3850 3860 3870 3880
 3890 3900 3910 3920 3930
 3940 3950 3960 3970 3980
 3990 4000 4010 4020 4030
 4040 4050 4060 4070 4080
 4090 4100 4110 4120 4130
 4140 4150 4160 4170 4180
 4190 4200 4210 4220 4230
 4240 4250 4260 4270 4280
 4290 4300 4310 4320 4330
 4340 4350 4360 4370 4380
 4390 4400 4410 4420 4430
 4440 4450 4460 4470 4480
 4490 4500 4510 4520 4530
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 4590 4600 4610 4620 4630
 4640 4650 4660 4670 4680
 4690 4700 4710 4720 4730
 4740 4750 4760 4770 4780
 4790 4800 4810 4820 4830
 4840 4850 4860 4870 4880
 4890 4900 4910 4920 4930
 4940 4950 4960 4970 4980
 4990 5000 5010 5020 5030
 5040 5050 5060 5070 5080
 5090 5100 5110 5120 5130
 5140 5150 5160 5170 5180
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 5240 5250 5260 5270 5280
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Figure 5B

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Figure 5B (cont)

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300	310	320	330	340
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Figure 5B (cont)

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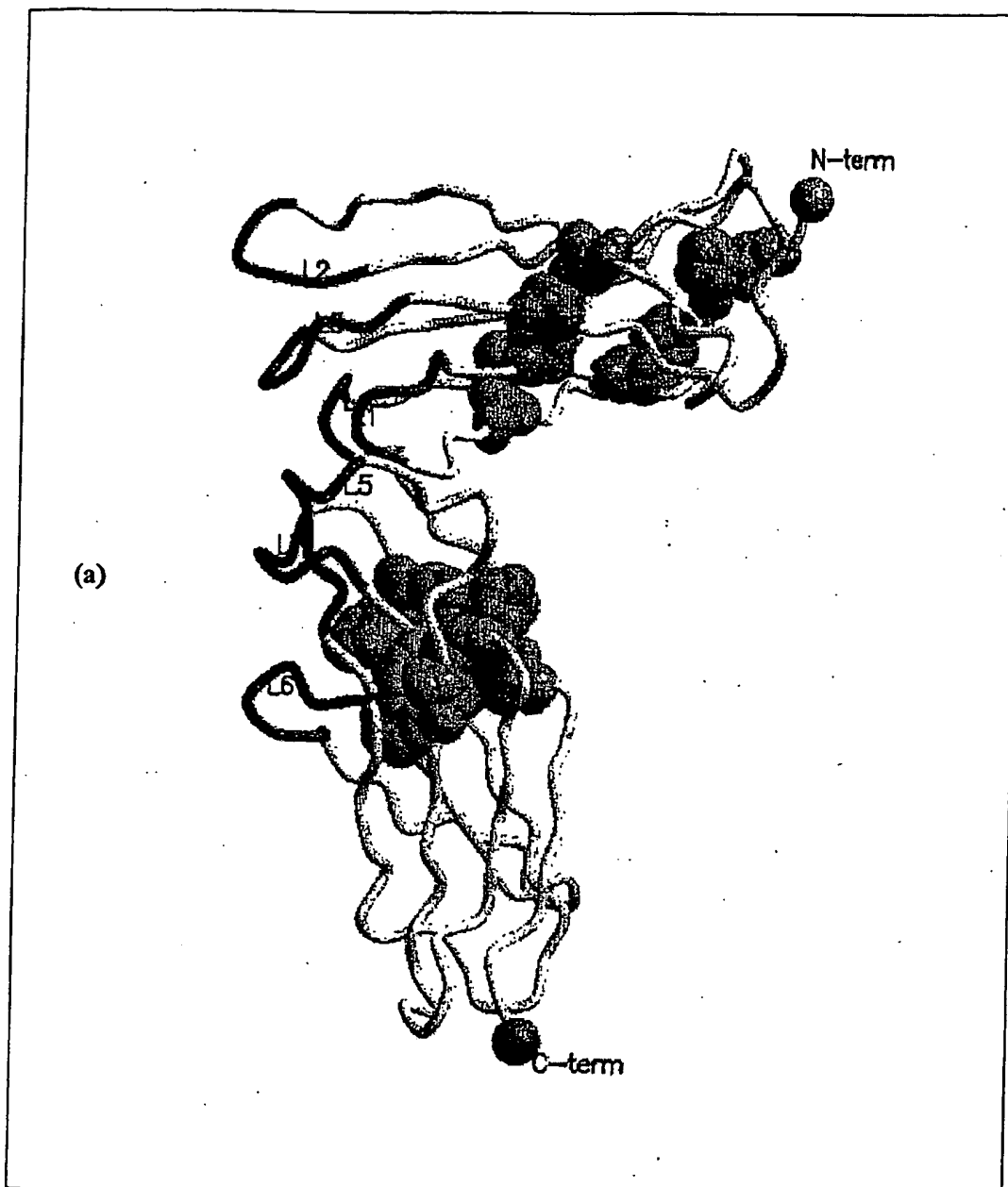


Figure 6(a)

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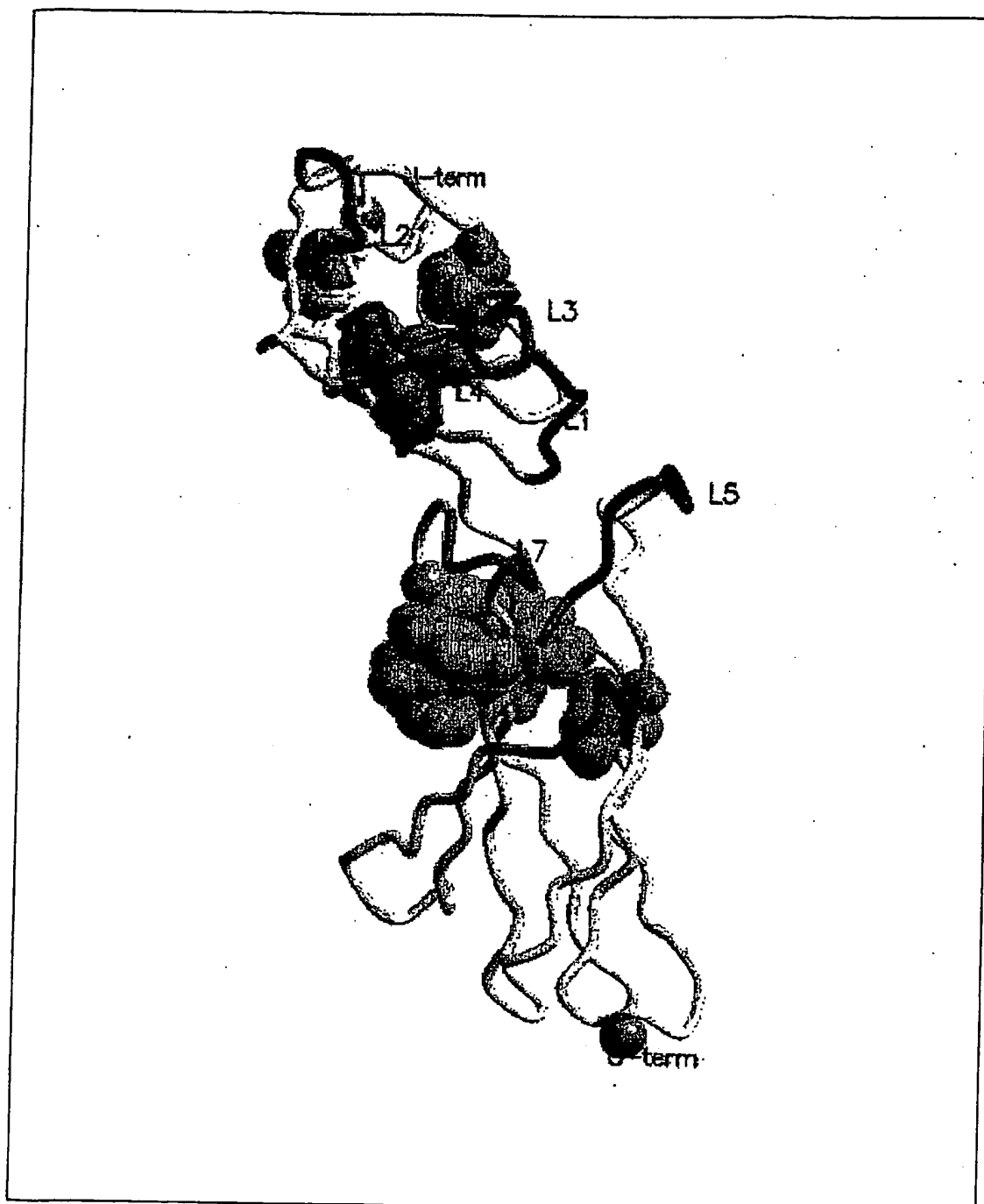


Figure 6(b)

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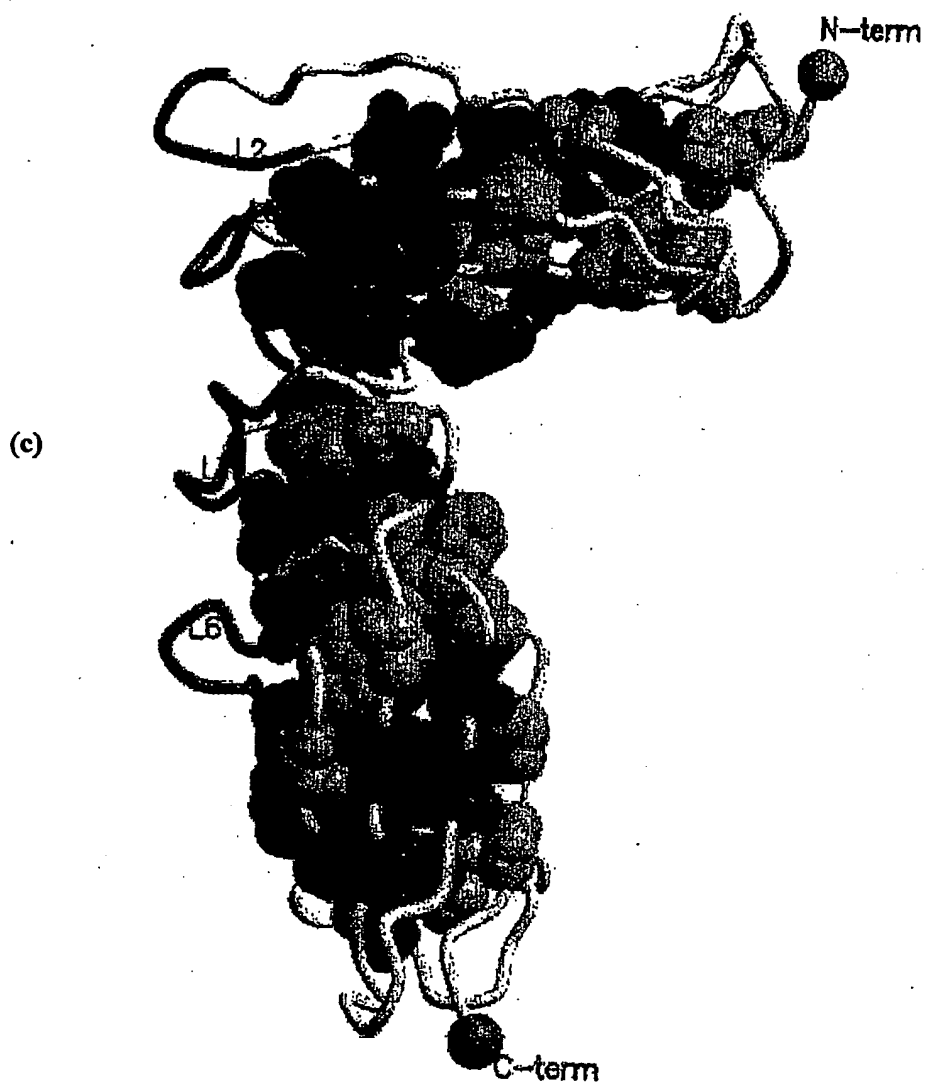


Figure 6(c)

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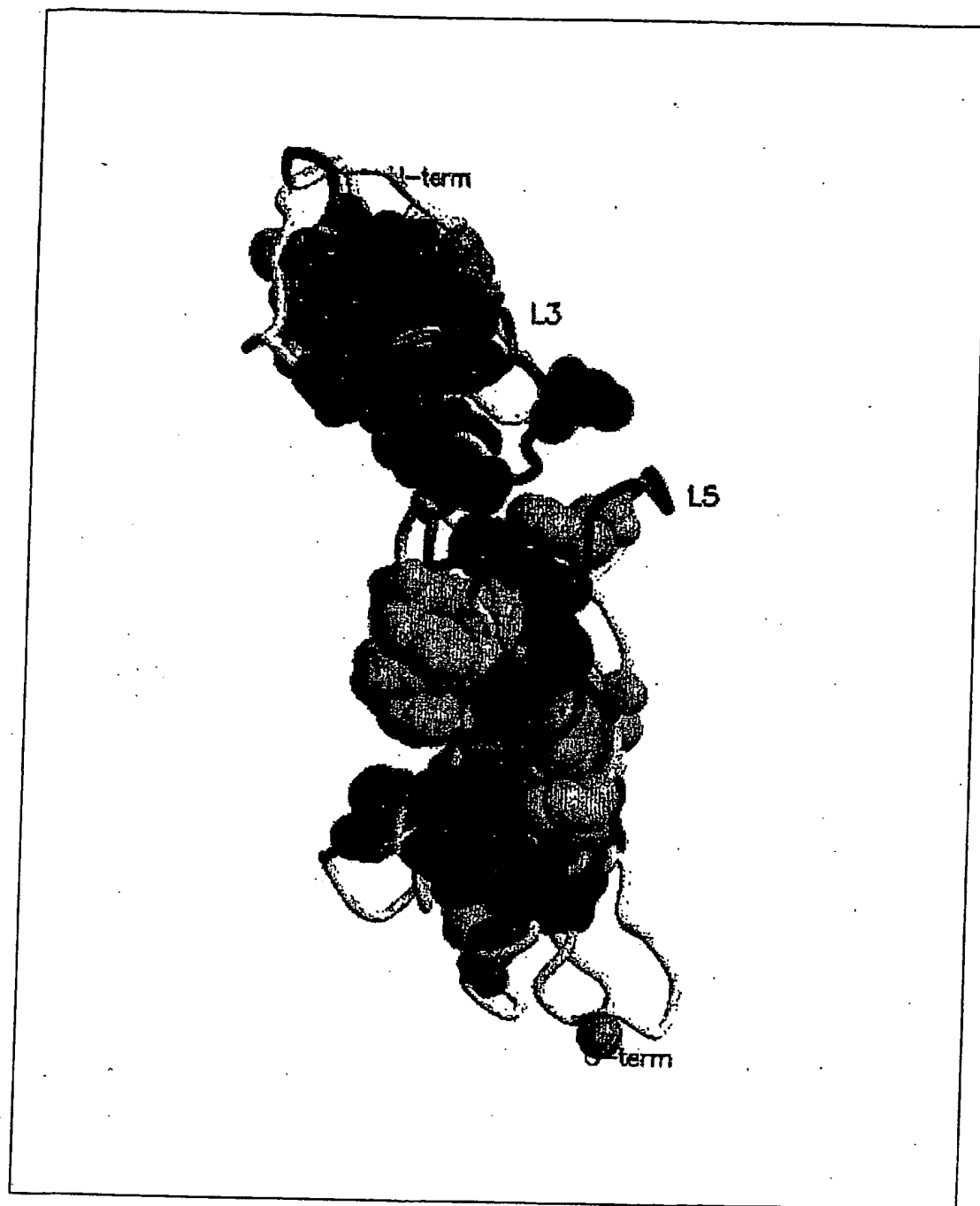


Figure 6(d)

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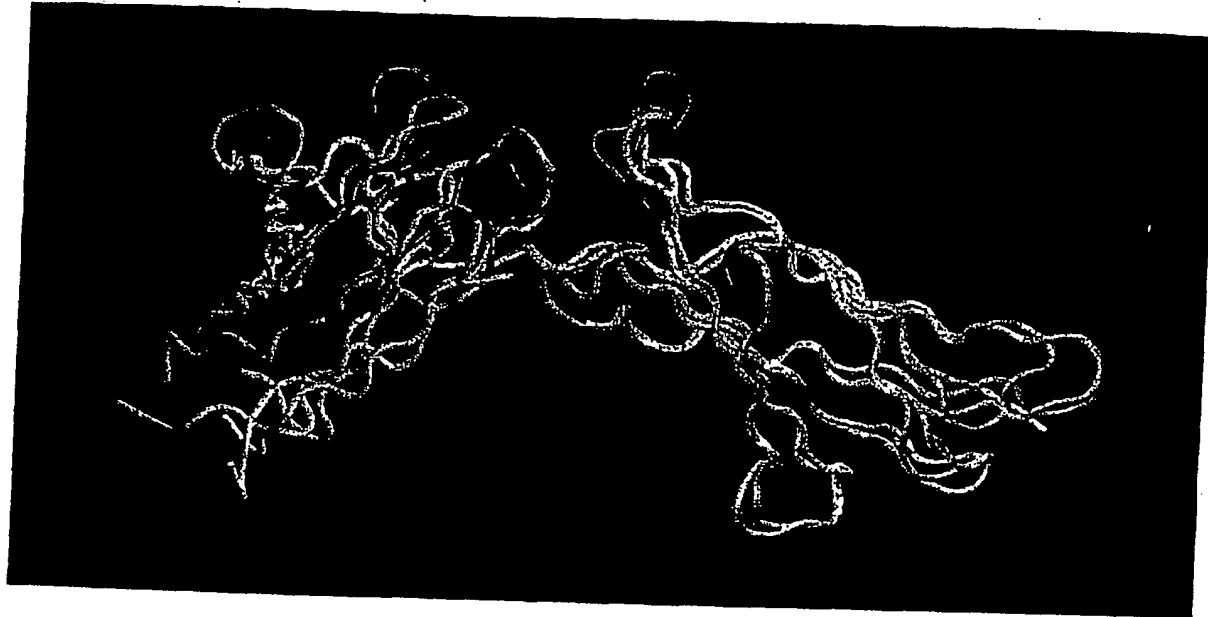


Figure 7

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